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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,361	01/18/2002	Hsien-Kun Chu	LC-366-PCT-US	8077

7590

09/25/2003

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EXAMINER

MCCLENDON, SANZA L

ART UNIT	PAPER NUMBER
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1711

DATE MAILED: 09/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/031,361

Applicant(s)

CHU, HSIEN-KUN

Examiner

Sanza L McClendon

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 18 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 and 14-25 is/are rejected.
- 7) ☒ Claim(s) 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1/2002.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-12 and 14-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Chu et al (5,516,812).

Chu et al teaches UV-moisture curable silicone conformal coatings. Said coating comprises a silicone fluid of a monovalent ethylenically unsaturated functional group end-capped silicone, at least one (meth) acryl-functionalized silicone, and a photoinitiator. Said monovalent ethylenically unsaturated functional group end-capped silicone is a reaction product obtained by a silanol-terminated silicone and a silane crosslinker. Said crosslinker has directly adjoined to a silicone atom a monovalent ethylenically unsaturated functional group and at least 2 hydrolyzable groups, which reads on formula I in claims 1 and 2, wherein R1 is a hydrolyzable group. Said silanol-terminated silicone is a linear polyorganosilane, which reads on formula II in claim 1 and formula IV in claim 2. Said crosslinkers is used in amounts from 1 to 50% by weight based on the silanol-terminated silicone. When the viscosity of the composition needs to be modified, Chu et al teaches adding non-reactive silicones-column 8, lines 45-52. Said (meth) acryl-functionalized silicone can be compounds, such as (meth) acryloxypropyldimethoxysilyl-terminated silicones. Because Chu et al teaches using liquid vinyl containing silicone resins, which are reactive and can be considered diluents because they are in liquid form,

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therefore claim 11-12 are deemed to be anticipated by the reference.

Chu et al teaches that the composition can be cured using actinic radiation and moisture, in cases where the coating is shaded from the actinic radiation exposure. Chu et al teaches that elevated temperatures can be employed to cure the composition to speed up the reaction rate. When curing with actinic radiation, photoinitiators are used in the composition. Photoinitiators, such as those listed in column 9, lines 8-22 can be used, wherein diethoxyacetophenone is listed and, additionally, the only one used in the examples. Photoinitiators can be added in amounts from 0.1% to 15% by weight based on the curable components in the composition. Moisture cure initiators, such as orthotitanates can be added to the composition. Chu et al teaches the effective amounts of the initiator is preferably from 0.2 to 5% by weight. The (meth) acryl-functionalized silicone can be added in amounts from 80 to about 60 parts by weight. The ethylenically unsaturated functional group end-capped silicone can be added to the composition in amounts from 20 to about 35 parts by weight of the composition.

The teachings of Chu et al are deemed to anticipate the invention of claims 1-12 and 14-25.

Allowable Subject Matter

3. Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter: because the prior art does not teach or fairly suggest the mol%, of claim 13 for the one first silane and one other silane for the silicone resin as taught by claim 2.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L McClendon whose telephone number is (703) 305-0505. The examiner can normally be reached on Monday through Friday 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (703) 308-2462. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

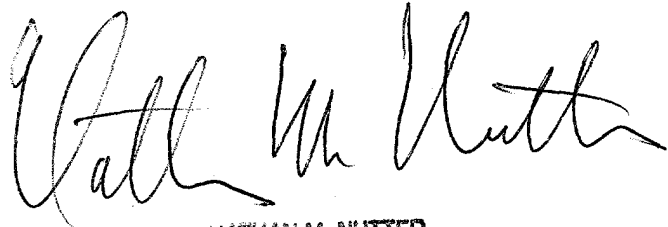
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0657.

Sanza L McClendon

Examiner

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SMc

A handwritten signature in black ink, appearing to read "Nathan M. Nutter", is written over a rectangular stamp.

NATHAN M. NUTTER
PRIMARY EXAMINER
GROUP 1000 1711